

	Application No.	Applicant(s)
Notice of Allowability	10/613,462	ANDREWS ET AL.
	Examiner	Art Unit
	Daniel D. Chang	2819
The MAILING DATE of this communication at All claims being allowable, PROSECUTION ON THE MERITS herewith (or previously mailed), a Notice of Allowance (PTOLNOTICE OF ALLOWABILITY IS NOT A GRANT OF PATEN of the Office or upon petition by the applicant. See 37 CFR 1	ppears on the cover sheet wi S IS (OR REMAINS) CLOSED in -85) or other appropriate commu T RIGHTS. This application is s	n this application. If not included unication will be mailed in due course. THIS
1. This communication is responsive to Amendment filed	<u>2/22/2005</u> .	
2. ☑ The allowed claim(s) is/are <u>1-21</u> .		
3. $igotimes$ The drawings filed on <u>03 July 2003</u> are accepted by the	e Examiner.	
 4. Acknowledgment is made of a claim for foreign priority a) All b) Some* c) None of the: 1. Certified copies of the priority documents in the copies of the copies of the priority international Bureau (PCT Rule 17.2(a)). * Certified copies not received: 	nave been received. nave been received in Applicatio	on No
Applicant has THREE MONTHS FROM THE "MAILING DA' noted below. Failure to timely comply will result in ABANDO THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		a reply complying with the requirements
5. A SUBSTITUTE OATH OR DECLARATION must be su INFORMAL PATENT APPLICATION (PTO-152) which	ubmitted. Note the attached EXA gives reason(s) why the oath or	AMINER'S AMENDMENT or NOTICE OF r declaration is deficient.
6. CORRECTED DRAWINGS (as "replacement sheets")	must be submitted.	
(a) ☐ including changes required by the Notice of Drafts	person's Patent Drawing Review	v (PTO-948) attached
1) ☐ hereto or 2) ☐ to Paper No./Mail Date	·	
(b) ☐ including changes required by the attached Examile Paper No./Mail Date	ner's Amendment / Comment or	r in the Office action of
Identifying indicia such as the application number (see 37 CF each sheet. Replacement sheet(s) should be labeled as such		
7. DEPOSIT OF and/or INFORMATION about the deattached Examiner's comment regarding REQUIREME	eposit of BIOLOGICAL MATE	ERIAL must be submitted. Note the
Attachment(s) 1. □ Notice of References Cited (PTO-892)	5 □ Notice of In	formal Patent Application (PTO-152)
 Notice of Praftperson's Patent Drawing Review (PTO-94) 		ummary (PTO-413),
3. ☐ Information Disclosure Statements (PTO-1449 or PTO/S	Paper No./	/Mail Date Amendment/Comment
Paper No./Mail Date	o ⊠ 5	. Chatamant of Danaga for Allaura
 Examiner's Comment Regarding Requirement for Deposit of Biological Material 	8. ⊠ Examiner's 9. ☐ Other	Statement of Reasons for Allowance

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Acknowledgement

Receipt is acknowledged of the Amendment filed February 22, 2005.

Reasons for Allowance

Claims 1-21 are allowable over the prior art of record.

The following is an examiner's statement of reasons for allowance: the best prior art of record, Nguyen, taken alone or in combination of other references, does not teach or fairly suggest a programmable logic device comprising, among other things, at least one programmable I/O buffer (PIB) that can be programmed to support three or more of a double data rate (DDR) input mode, one or more demux input modes, one or more DDR demux input modes, and one or more additional input modes that do not involve any demultiplexing or DDR-to-SDR conversion, where the one or more demux input modes are different from the DDR input mode (claims 1 and 15, and similarly with claim 16); a transfer stage that is driven by a system clock signal corresponding to the time domain of the logic core (claim 17); demultiplexing circuitry coupled to the DDR circuitry and programmable to demultiplex each of the two SDR data signals into two or more lower-rate SDR data signals (claim 20); and multiplexing circuitry programmable to multiplex four or more outgoing single data rate (SDR) data signals into two higher-rate SDR data signals (claim 21), as set forth in the claims.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

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Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Daniel D. Chang whose telephone number is (571) 272-1801. The examiner can normally be reached on Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael J. Tokar can be reached on (571) 272-1812. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

> Daniel D. Chang Primary Examiner

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DANIEL CHANG PRIMARY EXAMINER